

**Enhanced Denoising System****ABSTRACT**

A method and apparatus for processing a received digital signal that has been  
5 corrupted by a channel is disclosed. The method includes storing the received digital signal  
and receiving a partially corrected sequence of symbols that includes an output of a  
preliminary denoising system operating on the received digital signal. Information specifying  
a signal degradation function that measures the signal degradation that occurs if a symbol  
having the value I is replaced by a symbol having the value J is utilized to generate a  
10 processed digital signal by replacing each symbol having a value I in a context of that symbol  
in the received digital signal with a symbol having a value J if replacement reduces a measure  
of overall signal degradation in the processed digital signal relative to the received digital  
signal as measured by the degradation function and the partially corrected sequence of  
symbols.